Showman, Keith (DEQ)

From:

Adams, Danielle (DEQ)

Sent:

Friday, June 03, 2016 10:09 AM

To:

'ED BELSKI'

Subject:

Endless Caverns STP, VPDES Permit No. VA0071846, Rockingham County

ED BELSKI Endless Caverns STP 1800 Endless Caverns Rd New Market, VA 22844

Dear Mr. Belski:

Your application has been reviewed and appears to be complete. The waivers you requested from sampling and reporting have been granted. The next steps involve assembling the information necessary to develop the permit limitations and then drafting the permit. Once the draft permit is prepared and the appropriate reviews are performed, I will transmit the draft permit and supporting documentation to you for review. I expect to have this draft permit package to you within the next 2 months.

The Department of Environmental Quality strives to complete the permitting process in a timely manner. If you have any questions about our procedures or the status of your draft permit, please do not hesitate to contact us.

Sincerely,

Danielle Adams

Land Application Specialist | DEQ-Valley Regional Office | PO Box 3000, Harrisonburg, VA 22801 | Ph. 540-574-7814 | Fax 540-574-7878

MEMORANDUM

DEPARTMENT OF ENVIRONMENTAL QUALITY

VALLEY REGIONAL OFFICE

4411 Early Road - P.O. Box 3000

Harrisonburg, VA 22801

SUBJECT:

Application Errata for VPDES Permit No. VA0071846, Endless Caverns STP.

Rockingham

TO:

PP File

FROM:

Danielle Adams

DATE:

6/3/16

The following deficiencies were noted in the subject permit reissuance application:

Form 2A

Item A.6. – Annual average and maximum daily flow rates for Outfall 001 were not provided on the application, since this information was previously submitted with the monthly Discharge Monitoring Reports (DMR's).

Item A.9.e. – Annual average flow rates for Outfall 001 was not provided on the application, since this information was previously submitted with the monthly DMR's.

Item A.9.f. – The mode of discharge is marked as intermittent/periodic, but the facility should be considered a continuous discharge even though it only operates seasonally.

ItemA.11.c. Based on information on file, U.V. is the primary disinfection method.

ItemA.12. Effluent testing information for Outfall 001 was not provided on the application, since this information was previously submitted with the monthly DMR's. The applicant has requested a waiver from fecal coliform and temperature. The request waivers appear to be justified.

The deficiencies noted are insignificant and will not affect the preparation of a legally and technically defensible draft permit.

Reviewer Concurrence: My 9-8-16

VPDES Permit Application Addendum

1.	Entity to whom the permit is to be issued: Endless Caverns, LLC
	Who will be legally responsible for the wastewater treatment facilities and compliance with the permit? This may or may not be the facility or property owner.
2.	Is this facility located within city or town boundaries? YES NO
	Include a topographic map identifying the location of the facility, the property boundaries, and the discharge point.
3.	What is the tax map parcel number for the land where this facility is located? 54(A)63
4.	For the facility to be covered by this permit, how many acres will be disturbed during the next five years due to new construction activities?0.00
5.	ALL FACILITIES: What is the design average flow of this facility? MGD Industrial facilities: What is the maximum 30-day avg. production level (include units)?
	In addition to the above design flow or production level, should the permit be written with limits for any other discharge flow tiers or production levels? YES NO
	If "Yes", please specify the other flow tiers (in MGD) or production levels: 0.01, 0.02, and 0.03 Please consider: Is your facility's design flow considerably greater than your current flow? Do you plan to expand operations during the next five years?
6.	Nature of operations generating wastewater: RV Campground and Endless Caverns Tourist Facility
	100 % of flow from domestic connections/sources Number of private residences to be served by the wastewater treatment facilities: 0
7.	Mode of discharge: ☐ Continuous ☐ Intermittent ☑ Seasonal
	Describe frequency and duration of intermittent or seasonal discharges: The RV park and campground is a seasonal facility operating April through October annually
	The ITV park and campground is a seasonal facility operating April through October annually
8.	
	 ✓ Permanent stream, never dry ☐ Intermittent stream, usually flowing, sometimes dry
	Ephemeral stream, wet-weather flow, often dry
	Effluent-dependent stream, usually or always dry
	☐ Lake or pond at or below the discharge point ☐ Other:
9.	Consent to receive electronic mail
	The Department of Environmental Quality (DEQ) may deliver permits, certifications and plan approvals
	to recipients, including applicants or permittees, by electronically certified mail where the recipients notify DEQ of their consent to receive mail electronically (§ 10.1-1183). Check <i>only one</i> of the following to consent to or decline receipt of electronic mail from DEQ as follows:
	Applicant or permittee agrees to receive by electronic mail the permit and any plan approvals
	associated with the permit that may be issued for the proposed pollutant management activity, and to certify receipt of such electronic mail when requested by the DEQ. Please provide email:ed.belski@gopromegroup.com
	Applicant or permittee declines to receive by electronic mail the permit and any plan approvals associated with the permit that may be issued for the proposed pollutant management activity.

BASIC APPLICATION INFORMATION

PAF	RT A. BASIC APPL	ICATION IN	FORMATION FOR ALL	APPLICANTS:					
All t	reatment works mus	t complete que	estions A.1 through A.8 of	this Basic Application Information	packet.				
A.1.	Facility Information	1.							
	Facility name	Endless Cav	verns. LLC						
	Mailing Address	1800 Endles	s Caverns Road, New M	1arket, VA 22844					
	Contact person	Edward N. I	Belski, PE						
	Title	Director of Facilities Engineering							
	Telephone number	(518) 369-3815							
	Facility Address (not P.O. Box)	Now Market VA 22944							
A.2.	Applicant Informati	on. If the appli	cant is different from the ab	ove, provide the following:					
	Applicant name								
	Mailing Address								

	Contact person								
	Title								
	Telephone number								
	Is the applicant the	owner or oper	ator (or both) of the treatr	ment works?					
	Indicate whether corr	espondence re	garding this permit should b applicant	e directed to the facility or the applicar	nt.				
A.3.	Existing Environmental Permits. Provide the permit number of any existing environmental permits that have been issued to the treatment works (include state-issued permits).								
	NPDES <u>VA00 718-46</u>		·						
	UIC			Other					
	RCRA Other								
۸.4.	Collection System In each entity and, if known etc.).	n formation. Prown, provide inf	ovide information on munic ormation on the type of coll	ipalities and areas served by the facilit ection system (combined vs. separate)	ty. Provide the name and population of) and its ownership (municipal, private,				
	Name		Population Served	Type of Collection System	Ownership				
	Endless Caverns F	RV Park	600 campers	Gravity	Endless Caverns, LLC				
	Total pop	ulation served							

A.5.	In	dian Country.				-								
	a.	Is the treatment works loo	ated in Indi	an Coι	intry?									
		Yes		No										
	b.	Does the treatment works through) Indian Country?	discharge i	to a red	ceiving water that	is either in	Indian Country	or that is upst	ream fro	m (and	eventually	flows		
		Yes	1	No										
A.6.	a٧	Flow. Indicate the design flow rate of the treatment plant (i.e., the wastewater flow rate that the plant was built to handle). Also provide the average daily flow rate and maximum daily flow rate for each of the last three years. Each year's data must be based on a 12-month time period with the 12th month of "this year" occurring no more than three months prior to this application submittal.												
	a.	Design flow rate	0.039	ngd										
					Two Years Ago		Last Year		This Y	<u>ear</u>				
	b.	Annual average daily flow	rate	_		0.00		0.00			0.00	mgd		
	c.	Maximum daily flow rate		_		0.00		0.00			0.00	mgd		
A.7,		ollection System. Indicate intribution (by miles) of each		of colle	ection system(s) u	sed by the	treatment plant.	Check all th	at apply.	Also e	estimate the	e percent		
	00													
	_	Separate sanitary se									100	%		
	_	Combined storm and	d sanitary se	ewer								%		
A.8.	Di	scharges and Other Dispo	sal Method	ls.										
	a.	Does the treatment works	discharge e	effluent	to waters of the l	J.S.?			_ Yes			No		
	If yes, list how many of each of the following types of discharge points the treatment works uses:													
	i. Discharges of treated effluent									1				
		ii. Discharges of untreate	ed or partiali	ly treat	ed effluent					0				
	iii. Combined sewer overflow points									0				
		iv. Constructed emergen	cy overflows	(prior	to the headworks	5)				0				
		v. Other								0				
	b.	Does the treatment works impoundments that do not							Yes		√	No		
		If yes, provide the following			_									
		Location:												
		Annual average daily volu	me discharg	ed to s	surface impoundm	nent(s)					mgd			
		ls discharge	continuou	s or	inter	mittent?								
	c.	Does the treatment works	land-apply t	reated	wastewater?				Yes			No		
		If yes, provide the following	g <u>for each la</u>	ind api	olication site:									
		Location:												
		Number of acres:												
		Annual average daily volum	me applied t	o site:			Mo	gd						
		Is land application	con	tinuous	ог	intermitte	ent?							
,	d.	Does the treatment works treatment works?	discharge o	r trans	port treated or un	treated wa	stewater to anoth	ner 	_ Yes		<u>√</u>	No		

FACILITY NAME AND PERMIT NUMBER: Endless Caverns VAA0071846

Form Approved 1/14/99 OMB Number 2040-0086

If transport is by a par	other than the applicant, provide:		
Transporter name:			
Mailing Address:			
Contact person:			
Title:			
Telephone number:			
Name:	·		
For each treatment wo	ss that receives this discharge, provide th	ne following:	
Mailing Address:			
Contact person:			
Title:			
Title: Telephone number:			
Title: Telephone number: If known, provide the N	DES permit number of the treatment wo	rks that receives this discharge.	
Title: Telephone number: If known, provide the N		rks that receives this discharge.	NA mo
Title: Telephone number: If known, provide the N Provide the average decorate the treatment wo	DES permit number of the treatment wo	rks that receives this discharge. the receiving facility.	
Title: Telephone number: If known, provide the N Provide the average d Does the treatment wo A.8.a through A.8.d ab	DES permit number of the treatment wo y flow rate from the treatment works into	rks that receives this discharge. the receiving facility.	 NA_ mg
Title: Telephone number: If known, provide the N Provide the average d Does the treatment wo A.8.a through A.8.d ab If yes, provide the follow	PDES permit number of the treatment wo y flow rate from the treatment works into as discharge or dispose of its wastewater we (e.g., underground percolation, well in	rks that receives this discharge. the receiving facility. in a manner not included in jection)?	

FACILITY NAME AND PERMIT NUMBER: Endless Caverns VA0071846

Form Approved 1/14/99 OMB Number 2040-0086

WASTEWATER DISCHARGES:

If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. If you answered "no" to question A.8.a, go to Part B, "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

). De	es	cription of Outfall.							
a.		Outfall number	001	_					
b.		Location	1800 Endless Caverns Road	(Zip Code)					
			Rockingham	Virginia					
			(County) N38d 35.963'	(State) W78d 40.694'					
			(Latitude)	(Longitude)					
C.		Distance from shore (if	fapplicable)	N/A ft.					
d.		Depth below surface (i	f applicable)	N/A ft.					
e.		Average daily flow rate		0.00 mgd					
f.		Does this outfall have operiodic discharge?	either an intermittent or a	Yes No (go to A.9.g.)					
		If yes, provide the follo	wing information:						
	ı	Number of times per ye	ear discharge occurs:	Designed for daily discharge					
	,	Average duration of ea	ch discharge:	design 12-18 hrs, actual 0 hrs					
	,	Average flow per disch	arge:	design 0.015 to 0.025, actual 0.00 mgd					
	ı	Months in which discha	arge occurs:	design Apr to Oct, Actual - none					
g.	ı	ls outfall equipped with	a diffuser?	Yes √ No					
0. De	25(cription of Receiving	Waters.						
a.									
	ſ	Name of receiving wate	er Smith Creek	· · · · · · · · · · · · · · · · · · ·					
b.		Name of receiving water							
	1	Name of watershed (if		ıed code (if known):					
	l	Name of watershed (if United States Soil Cons	known)	ned code (if known):					
b.	1	Name of watershed (if United States Soil Cons Name of State Manage	known) servation Service 14-digit watersh						
b.	11 11 11 11 11 11 11 11 11 11 11 11 11	Name of watershed (if United States Soil Constant Name of State Manage United States Geologic Critical low flow of rece	known) servation Service 14-digit watersh ment/River Basin (if known): al Survey 8-digit hydrologic catalo iving stream (if applicable):	oging unit code (if known):					
b. c.	1 1 1 1 1	Name of watershed (if United States Soil Constant Name of State Manage United States Geologic Critical low flow of recestante	known) servation Service 14-digit watersh ment/River Basin (if known): al Survey 8-digit hydrologic catalo iving stream (if applicable): cfs						

FACILITY NAME AND PERMIT NUMBER: Endless Caverns VA0071846

Form Approved 1/14/99 OMB Number 2040-0086

A.11. De	escription of T	reatment.							
a.	What levels o	f treatment a	ire provided? C	heck all that	apply.				
	P	rimary	_	✓ Seco	ondary				
	Α	dvanced		Othe	r. Describe:				<u> </u>
b.	Indicate the fo	ollowing remo	oval rates (as a	pplicable):					
	Design BOD _s	removal <u>or</u> [Design CBOD _s	removal		90-	-95	%	
	Design SS rei	moval				90-	-95	%	
	Design P rem	oval						%	
	Design N rem	oval						%	
	Other							%	
C.				ffluent from th	nis outfall? If disi	nfection varie	es by season in	lease describe	
	UV and chic				no outrain. If allo		, o by dddddi, p	iodoo doodiiso.	
			ation, is dechlor	ination used	for this outfall?		√ Ye	ne e	No
d	Does the treat	•			ior trila oction:		✓ Ye		— No
			·			-11			for the following
At	a minimum, ef tfall number: PARAME	fluent testin	ig data must b	e based on a	at least three sa Waiver red	mples and n	nust be no mo	ore than four and	by 40 CFR Part 136. one-half years apart. JE
			V	alue	Units	Valu	ie	Units	Number of Samples
pH (Minin	num)				s.u.				
pH (Maxii	mum)				s.u.				
Flow Rate									
Temperat	ture (Winter)								
	ture (Summer)								
* Fo	or pH please re								
	POLLUTANT			MAXIMUM DAILY DISCHARGE		E DAILY DIS	CHARGE	ANALYTICAL METHOD	ML / MDL
			Conc.	Units	Conc.	Units	Number of Samples		
CONVENT	TIONAL AND N	ONCONVE	NTIONAL COM	POUNDS.				•	
BIOCHEMI	CAL OXYGEN	BOD-5							
DEMAND (Report one)	CBOD-5							
ECAL CO	LIFORM								
TOTAL SU	SPENDED SOL	IDS (TSS)							
REFE	R TO THE	APPLIC	CATION O	VERVIE	D OF PAR W TO DET	ERMINE		OTHER PAR	TS OF FORM

FACILITY NAME AND I	PERMIT NUMBER: rns VA0071846		Form Approved 1/14/99 OMB Number 2040-0086					
BASIC APPLIC	ATION INFORMAT	ION						
PART C. CERTIFICATION								
All applicants must complete the Certification Section. Refer to instructions to determine who is an officer for the purposes of this certification. All applicants must complete all applicable sections of Form 2A, as explained in the Application Overview. Indicate below which parts of Form 2A you have completed and are submitting. By signing this certification statement, applicants confirm that they have reviewed Form 2A and have completed all sections that apply to the facility for which this application is submitted.								
Indicate which parts of	f Form 2A you have complet	ted and are submitting:						
Basic Applie	cation Information packet	Supplemental Application I	nformation packet:					
		Part D (Expanded	Effluent Testing Data)					
		Part E (Toxicity Te	esting: Biomonitoring Data)					
		Part F (Industrial L	Jser Discharges and RCRA/CERCLA Wastes)					
		Part G (Combined	Sewer Systems)					
ALL APPLICANTS MUS	ST COMPLETE THE FOLLOW	WING CERTIFICATION.						
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.								
Name and official title	Edward N. Belski, Directo	Facilities Engineering						
Signature	E. W. Das	L						
Telephone number	(518) 369-3815							
Date signed	04/25/2016							
Upon request of the perr works or identify appropr	mitting authority, you must sub	omit any other information ned	cessary to assess wastewater treatment practices at the treatment					

SEND COMPLETED FORMS TO:

VPDES Sewage Sludge Permit Application for Permit Reissuance Instructions WHO MUST SUBMIT THE APPLICATION - All facilities with a current VPDES Permit that authorizes the discharge of treated sewage wastewater that are applying for reissuance must complete and submit this application. Part 1 is general information to be provided by all facilities. Part 2 must be completed by all facilities that generate Class A or Class B biosolids that are land applied. Part 3 must be completed by all facilities that land apply Class B biosolids. Part 1 – Sludge Disposal Management (To be completed by all facilities) VPDES Permit No: _VA 0071846 Endless Caverns, LLC Facility Name: N/A 1. Shipment Off Site for Treatment or Blending Is sewage sludge from your facility sent to another facility that provides treatment or blending? N/A ☐ Yes ☐ No If you send sewage sludge to more than one facility, attach additional sheets as necessary. Shipment off site is: The primary method of sludge disposal A back up method of sludge disposal a. Receiving Facility Name b. Receiving Facility VPDES Permit No. c. Include an acceptance letter from the Receiving Facility. d. Receiving Facility's ultimate disposal method for sewage sludge Disposal in a Municipal Solid Waste Landfill ☐ Yes ☐ No Is sewage sludge from your facility placed in a municipal solid waste landfill? If sewage sludge is placed on more than one municipal solid waste landfill, attach additional pages as necessary. Landfilling is: The primary method of sludge disposal A back up method of sludge disposal a. Landfill Name b. Landfill Permit No. c. Include an acceptance letter from the landfill. Incineration Is sewage sludge from your facility fired in a sewage sludge incinerator? ☐ Yes ☐ No Incineration is: The primary method of sludge disposal ☐ A back up method of sludge disposal a. Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired? ☐ Yes ☐ No If yes, provide the Air Registration No. If no, complete items b - d for each incinerator that you do not own or operate. b. Facility Name c. Air Registration No. d. Include an acceptance letter from the Incinerator. Class A Biosolids N/A Do you produce Class A biosolids for land application or distribution and marketing? If yes, complete Part 2. ☐ Yes / ☐ No ☐ Yes ☐ No Are Class A biosolids from your facility land applied in bulk? Yes Yes □ No Do you sell or give away Class A biosolids in a bag or other container for application to the land? If yes, provide the VDACS certification number? Class B Biosolids N/A ☐ Yes ☐ No Do you produce Class B biosolids? If yes, complete Part 2. ☐ Yes ☐ No Are Class B biosolids from your facility land applied land applied under the authorization of this VPDES Permit? If yes, complete Part 3. Land Application Under a Separate Permit N/A ☐ Yes ☐ No Are biosolids from your facility land applied under the authorization of a permit other than your VPDES Permit? Biosolids are land applied under the authorization of a VPA permit Another VPDES Permit Out of State Complete items a - c for each VPA permit authorized to land apply biosolids from your facility. a. Permittee Name b. Permit No. Include copy of any information you provide to the Receiving VPDES or VPA Permittee to comply with the "notice and necessary information" requirement of 9VAC25-31-530 F.

	VPDES Sewage Sludge Permit Application for Permit Reissuance	e						
Pa	art 2 - Biosolids Characterization (To be completed by all facilities that generate biosolids that are land	applied.)						
1.	Have there been changes to sludge treatment processes or storage facilities since the previous permit issuance/reissuance?	? Yes V No						
2.	Do the biosolids generated under this permit that will be land applied meet one of the Class A pathogen requirements in 9VAC25-31-710 A 3 through A 8 or Class B pathogen requirements in 9VAC25-31-710 B 1 through B 4? N/A	Yes No						
	Identify the pathogen reduction option utilized to demonstrate compliance with the pathogen reductions requirements and that demonstrate compliance with the applicable alternative.	provide the data						
3.	Do the biosolids generated under this permit that will be land applied meet one of the vector attraction reduction requirements in 9VAC25-31-720 B 1 through B 10?	Yes No						
	Identify the vector attraction reduction option utilized to demonstrate compliance with the vector attraction reductions require provide the data that demonstrate compliance with the applicable alternative.	uirements and						
4	Do the biosolids to be land applied meet the ceiling/pollutant concentrations in 9VAC25-31-540 B? N/A	☐ Yes ☐ No						
	Has data from the most recent 3 samples for pH (S.U.), Percent Solids (%), Ammonium Nitrogen (mg/kg), Nitrate Nitrogen (mg/kg), Total Kjeldahl Nitrogen (mg/kg), Total Phosphorus (mg/kg), Total Potassium (mg/kg), Alkalinity as CaCO ₃ (mg/kg), Arsenic (mg/kg), Cadmium (mg/kg), Copper (mg/kg), Lead (mg/kg), Mercury (mg/kg), Nickel (mg/kg), Seleniu (mg/kg), Zinc (mg/kg) been submitted to DEQ? The samples shall be no more than 4½ years old and each sampling date shall be at least 1 month apart.	en Yes No						
	If no, provide the data with this application.							
Pa	art 3 – Land Application of Class B Biosolids (To be completed by all facilities that land apply Class B bi	osolids.)						
1.	Provide to DEQ and to each locality in which biosolids are to be land applied, written evidence of financial responsibility. responsibility shall be provided in accordance with 9VAC25-31-100 P 9. N/A	. Evidence of financial						
2.	For each site, provide a properly completed landowner agreement for each landowner, using the most current Land Application Agreement - Biosolids Form (VPDES Sewage Sludge Permit Application Form – Attachment to Section C).							
3.	Are any new land application fields proposed at this reissuance?	☐ Yes 🔽 No						
	If yes, contact the DEQ Regional Office for additional submittal requirements.							
4.	For the currently permitted land application fields, are the previously submitted site booklets, maps and acreage accurate.	N/A□ Yes □ No						
	If no, contact the DEQ Regional Office for additional submittal requirements.							
5.	Does the facility's Biosolids Management Plan on file with DEQ include the following minimum information? N/A	☐ Yes ☐ No						
	a. An odor control plan that addresses the abatement of odors resulting from the storage and/or land application of bio							
	b. A description of the transport vehicles to be used.	DOTAGO						
	c. Procedures for biosolids offloading at the land application site including spill prevention, cleanup (including vehic	le cleaning) field						
	reclamation, and emergency notification and cleanup measures.							
	d. A description of the land application equipment including procedures for calibrating equipment to ensure uniform appropriate loading rates.							
	 Procedures used to ensure that land application activities address notification requirements, signage requirements, operation limitations during periods of inclement weather, soil pH requirements, buffer zone requirements, and site 	e restrictions.						
	f. Any other information necessary to ensure compliance with the requirements of the Biosolids Program of the VPD (9VAC25-31-420 through 720).	ES Permit Regulation						
Ce	ertification							
des who	sertify under penalty of law that this document and all attachments were prepared under my direction or supervision in accorsigned to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the manage the system or those persons directly responsible for gathering the information, the information is, to the best of notelief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including d imprisonment for knowing violations.	he person or persons ny knowledge and						
	Name and Official Title Edward N. Belski, Director of Facilities Engineering							
	Signature E. W. Edu							
	Telephone number / Email (518) 369-3815 /							
	Date signed <u>04/28/2016</u>							
(Ba	ased on a review of this information, it may be necessary to submit additional information to meet other legal or technical review requirements	ents.)						

Note: The Endless Caverns treatment plant has not yet been placed in service. There are no plans to activate the plant in the near future. As such, no sludge has been generated and no disposal arrangements have been made. Appropriate arrangements will be made and reported to DEQ Page 2 of 2

prior to activating the plant.